



PTO-1449 (Revised) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Attorney Docket No.: HESI.112275	Serial Number: 10/806,980
	Applicant: Yin L. Cheung, Michael J. Zeitlin and Mark Acosta	
	Filing Date: March 23, 2004	Group: 2671

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF. NO.	PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

EXAMINER INITIAL	REF. NO.	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, RELEVANT PAGES, PLACE OF PUBLICATION)
<i>2</i>		Landmark Graphics' Operational Manual on "SeisCube," October 1996, pp. 1-272.
<i>2</i>		Landmark Graphics' Operational Manual on "OpenVision," July 1997, pp. 1-169.

EXAMINER <i>Alan Park</i>	DATE CONSIDERED <i>9/30/04</i>
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF. NO.	PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUBCLASS	FILING DATE
<i>B</i>	1.	4,467,461	08/21/84	Rice, et al.	367	70	01/05/81
	2.	4,751,643	06/14/88	Lorensen, et al.	364	414	8/4/86
	3.	4,984,157	01/08/91	Cline, et al.	367	413	09/21/88
	4.	5,410,250	04/25/95	Brown, Hugh K.	324	309	09/28/93
	5.	5,455,896	10/03/95	Takamura, Teiji	395	119	11/29/94
	6.	5,563,949	10/08/96	Bahorich, et al.	364	421	12/12/94
	7.	5,574,836	11/12/96	Broemmelsiek, Raymond M.	395	127	1/22/96
	8.	5,586,082	12/17/96	Anderson, et al.	367	73	03/02/95
	9.	5,659,691	08/19/97	Durward, et al.	395	329	9/23/93
	10.	5,734,384	03/31/98	Yanof, et al.	345	424	10/15/96
	11.	5,759,044	06/02/98	Redmond, Scott	434	301	7/6/95
	12.	5,798,982	08/25/98	He, et al.	367	73	03/02/95
	13.	5,852,447	12/22/98	Hosoya, et al.	345	468	05/17/96
	14.	5,930,730	07/29/99	Marfurt, et al.	702	16	9/13/96
	15.	5,966,672	10/12/99	Knupp, Daniel F.	702	16	07/28/97
	16.	6,083,162	07/04/00	Vining, David J.	600	407	9/27/95
<i>B</i>	17.	6,144,383	11/07/00	Lichtenbelt, et al.	345	419	05/30/97

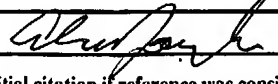
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>B</i>	18.	WO 96/18915	06/20/96	PCT	G01V	28		

EXAMINER <i>Alan J. Smith</i>	DATE CONSIDERED <i>9/30/09</i>
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EXAMINER INITIAL	REF. NO.	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, RELEVANT PAGES, PLACE OF PUBLICATION)
3	19.	Antosh, Nelson, "Oil Now Showing at a Theater Near You," September 19, 1997, 2 pages, <i>Houston Chronicle</i> , Business Section C.
2	20.	"CogniSeis Turns Up the Volume with the Latest Release of VoxelGeo," Press Release, April 30, 1997 (printed 3/27/98), 2 pages
2	21.	Compton, Mark, "A Dream Comes True," June 1997, 3 pages, IRIS Universe #26
2	22.	Gatti, C., D. Marini, P. Minardi, "An Interactive System for Volume Analysis," published 1993, Scientific Visualization Advanced Software Techniques, Section 3.2.
3	23.	GeoQuest, IESX "Integrated Multisurvey Interpretation," May 3, 1998, 17 pages, printed from Schlumberger website www.slb.com/oilf/geoquest/iesx/iesx.html .
3	24.	"GeoQuest at a glance," printed May 3, 1998, 3 pages, printed from Schlumberger website www.slb.com/ar94/html/geoquest.html .
3	25.	"GeoQuest Enhances GeoViz and Voxels for OCTANE," 1997 (printed 5/3/98), 3 pages, printed from GeoQuest/Schlumberger website www.sgi.com/Products/hardware/desktop/partners/octane/geoquest .
3	26.	Goldman, Jon and Roy, Trina M., "The Cosmic Worm," July 1994, pp. 12-14, <i>IEEE Computer Graphics and Applications</i> , Vol. 14, No. 4.
3	27.	Gras, Rutger, "Automated 3-D Software Interprets Fault Systems," May 1998, pp. 81-83, <i>World Oil</i> .
3	28.	Hutchinson, Suzi, "FZAP! 1.0 Offers Automated Fault Picking," printed March 27, 1998, 5 pages, UserNet - May/June 1997, printed from Landmark Graphics website www.lgc.com/UserNet/mj97/mj97*4.html .

EXAMINER 	DATE CONSIDERED 5/31/04
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	Filing Date: Concurrently Herewith	Group: 2621

EXAMINER INITIAL	REF. NO.	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, RELEVANT PAGES, PLACE OF PUBLICATION)
2	29.	Koen, A. D. "Tough Economics Remold Production R & D Campaign," July 5, 1993, pp. 14-18, <i>Oil & Gas Journal</i> .
2	30.	Peloso, Andy, "Open Vision 4.0," printed March 27, 1998, 8 pages, UserNet – May/June 1997, printed from Landmark Graphics website www.lgc.com/UserNet/mj97/mj97-3.html .
2	31.	Pepke, Eric "Animation and the Examination of Behavior Over Time," 1995, pp. 203-238, <i>Computer Visualization Graphics Techniques for Scientific and Engineering Analysis</i> , Chapter 7.
2	32.	Petzet, G. Alan, "Interactive 3D Visualization Speeds Well, Reservoir Planning," November 24, 1997, pp. 82-83 (copied on 1 page), <i>Oil & Gas Journal</i> .
2	33.	Scheier, Robert L., "Creating a Cash Gusher," April 21, 1997, pp. 76-78, <i>Computerworld</i> (www.computerworld.com).
2	34.	Shamban, Adam, Jones, Gary and Wright, Carole, "EarthCube 1.2: New Functionality and Work Flows," printed March 27, 1998, 8 pages, UserNet – May/June 1997, printed from Landmark Graphics website www.lgc.com/UserNet/mj97/mj97-5.html .
2	35.	"Texaco Announces the Opening of New 3-D Visualization Center in Houston," November 11, 1997, p. 11111454, <i>Business Wire</i> .
2	36.	"Texaco E&P Center Allows Visual Probe Of 3D Data Volumes," June 1, 1998, pp. 46-47 (copied on one page), <i>Oil & Gas Journal</i> .
2	37.	Thomas, Kate, "Oil Biz Gushes Patents," February 16, 1998, pp. 1, 26, <i>The National Law Journal</i> .
2	38.	"VoxelGeo," printed March 27, 1998, 5 pages, Paradigm Geophysical Broadband Solutions in Depth, printed from CogniSeis website www.cogniseis.com/voxelgeo.html .
2	39.	Zeitlin, Michael, "3-D Seismic Visualization," March 12, 1998, 1 page, presentation given at the Emerging Technologies Group Dinner Meeting, printed from www.hougeo.org/meet0398.htm .

EXAMINER <i>Robert L. Scheier</i>	DATE CONSIDERED <i>9/30/04</i>
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			2671

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EXAMINER <i>Cheryl Smith</i>	DATE CONSIDERED <i>9/30/04</i>
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